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Catalogue of Type and Referred Specimens of Crinozoa (Blastoidea) in Field Museum of Natural History

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INTRODUCTION

This part of the catalogue of fossil invertebrates lists the blastoids belonging to the University of Chicago (formerly Walker Museum) now on permanent loan to Field Museum. Consistent with the previous catalogues, only holotypes are recognized as valid types; all other so-called primary or secondary types are listed as referred specimens. The name of the species and its authorship is entered as it was originally published; in addition the publication date is always included. An attempt is made to note all subsequent systematic changes. The stratigraphic and geographic data are those of the original authors supplemented by the Museum catalogues. Type specimens not located at the present time are omitted from the catalogue.

This work was supported in part by the National Science Foundation grant no. GB-7197.

SPECIMENS AND CASTS

Codaster pyramidatus Shumard,1858
Referred specimen: UC 19067a.
Cline and Heuer, 1950, pp. 167–170, pl. 28, fig. 15.
Devonian, Onondagan.

Library of Congress Catalog Card Number: 77–165186

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Columbus, Ohio; Gurley Collection.

Remarks: *C. pyramidatus* = *Trionoblastus pyramidatus* (Shumard, 1858) Fay, 1961, p. 49.

T. pyramidatus = *Heteroschisma pyramidatus* (Shumard 1858) Fay and Wanner *in* Moore, 1967, p. 408.

Conoschisma laeviusculum (Rowley, 1900)

Referred specimens: UC 29904, two specimens.
Fay, 1961, pp. 24–25, text figs. 10–11, pl. 14, figs. 9, 11, 12.

= *Phaenoschisma laeviusculum* (Rowley, 1900)
Fay and Wanner *in* Moore, 1967, p. 400, text figs. 236,1a–236, 1d.

Mississippian, Upper Burlington Chert.

Louisiana, Missouri; Gurley Collection.

Cordyloblastus clavatus (Schultze, 1866)

Referred specimen: UC 19090.
Fay, 1961, p. 54, text figs. 80–81, pl. 20, figs. 4–6, 9.

Devonian.

Calizas de Arnao, León, Spain; Gurley Collection.

Cordyloblastus lusitanicus (Etheridge and Carpenter, 1882)

Referred specimen: UC 19091.
Fay, 1961, p. 57, text fig. 91, pl. 22, figs. 7–9.

= *Hyperoblastus eifeliensis* (Roemer, 1852–1854); museum catalogue.

Devonian.

Gerolstein, Germany; Gurley Collection.

Cribroblastus sampsoni (Hambach, 1886)

See: *Pentremites sampsoni* Hambach, 1886.

Cryptoblastus melo (Owen and Shumard, 1850)

See: *Pentremites melo* Owen and Shumard, 1850.

Cryptoblastus roemeri (Shumard, 1855)

See: *Pentremites sampsoni* Hambach, 1886.

Decaschisma pentalobus (Hall, 1879)

Referred specimens: UC 2554, eight specimens.

Fay, 1961, p. 27, text figs. 18–20, pl. 1, figs. 7–10.

Fay and Wanner *in* Moore, 1967, p. 400, text figs. 234,3a–234, 3e; 235,2a; 235,2b.

Silurian, Niagaran.

Waldron, Indiana; Washburn Collection.

Decaschisma pulchellum (S. A. Miller and Dyer, 1878)

Referred specimens: UC 2810, 11 specimens.

Fay, 1961, pp. 27–29, text figs. 21–22, pl. 1, figs. 1–3.

Fay and Wanner *in* Moore, 1967, p. 400, text fig. 234,3f.

Silurian, Niagaran.

Waldron, Indiana; Washburn Collection.

Deltoschisma archiaci (Etheridge and Carpenter, 1882)

Referred specimen: UC 51870 [formerly UC 13876].

Fay, 1961, pp. 29–30, text figs. 23–25, pl. 1, figs. 4–6.

Fay and Wanner *in* Moore, 1967, p. 400, text figs. 234,2a–234, 2e; 235,3a and 235,3b.

Devonian.

Calizas de Ferroñes, Asturias, Spain; Gurley Collection.

Diploblastus glaber (Meek and Worthen, 1869)

See: *Mesoblastus glaber* (Meek and Worthen, 1869).

Diploblastus incurvatus (S. Weller, 1920)

See: *Mesoblastus incurvatus* S. Weller, 1920.

Elaeacrinus venustus (S. A. Miller and Gurley, 1894)

See: *Nucleocrinus venustus* S. A. Miller and Gurley, 1894.

Elaeacrinus verneuili C. F. Roemer, 1851

Referred specimens: UC 9956, ten specimens.

Fay, 1961, pp. 65, 66, 68, pl. 28, figs. 7–10, text figs. 120–121.

Devonian, Onondaga Formation.

Jeffersonville, Indiana; Gurley Collection.

Ellipticoblastus orbicularis (Sowerby, 1834)

Referred specimen: UC 13877.

Fay, 1961, pp. 72–73, pl. 43, figs. 7–9, 12, text fig. 138.

Fay and Wanner *in* Moore, 1967, p. 444, text fig. 289,2a,b.

Lower Carboniferous Limestone.

Lancashire, England; Gurley Collection.

Granatocrinus sphaeroidalis S. A. Miller and Gurley, 1894

Holotype: UC 6620.

S. A. Miller and Gurley, 1894, p. 65, pl. 6, figs. 31–33.

=*Mesoblastus glaber* var. *sphaeroidalis* (S. A. Miller and Gurley, 1894).

Ulrich, 1917, p. 247.

Mississippian, Kaskaskia Group.

Meade County, Kentucky; Gurley Collection.

Granatocrinus winslowi S. A. Miller and Gurley, 1894

Holotype: UC 6621.

S. A. Miller and Gurley, 1894, p. 66, pl. 6, figs. 34, 35.

=*Orbitremites winslowi* (S. A. Miller and Gurley, 1894) Bassler and Moodey, 1943, p. 232.

=*Schizoblastus winslowi* (S. A. Miller and Gurley, 1894) Fay, 1961, p. 101, pl. 46, figs. 3–5.

Mississippian, ?Burlington Limestone.

The drift at Danville, Illinois; Gurley Collection.

Heteroschisma pyramidatus (Shumard, 1858)

See: *Codaster pyramidatus* Shumard, 1858.

Hyperoblastus eifeliensis (Roemer, 1852–1854)

See: *Cordyloblastus lusitanicus* (Etheridge and Carpenter, 1882).

Mesoblastus crenulatus (Roemer, 1851)

Referred specimens: UC 5196, two specimens.

Fay, 1961, pp. 76–77, pl. 47, figs. 1–3, 12, 13, text figs. 151, 152, 154.

Carboniferous Limestone [catalogue]; Lower Carboniferous Shale of the "Mountain Limestone" [published].

Tournai, Belgium; Krantz Collection.

Referred specimens: UC 19083, four specimens.
Fay, 1961, pp. 76–77, pl. 47, fig. 11, text fig. 153.

Carboniferous Tournaisian.

Tournai, Belgium; Gurley Collection.

Mesoblastus glaber (Meek and Worthen, 1869)

Referred specimens: UC 25361, four specimens.
S. Weller, 1920, p. 327, pl. 8, figs. 25–28.

Mississippian, Shetlerville Formation.

Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Remarks: *M. glaber* = *Diploblastus glaber* (Meek and Worthen, 1869).

Fay, 1961, p. 64.

Mesoblastus glaber var. **sphaeroidalis** (S. A. Miller and Gurley, 1894)

See: *Granatocrinus sphaeroidalis* S. A. Miller and Gurley, 1894.

Mesoblastus incurvatus S. Weller, 1920

Holotype, not designated, to be selected from UC 25404.

Referred specimens: UC 25404, three specimens.
S. Weller, 1920, pp. 358–359, pl. 8, figs. 29–34.

= *Diploblastus incurvatus* (S. Weller, 1920); museum catalogue.

Mississippian, Golconda Limestone.

S. Weller locality W17-2, Pope County, Illinois, near Flat Rockford [catalogue]; NE¼, sec. 28, T12S, R7E, Pope County, Illinois [published].

Metablastus nitidulus (S. A. Miller and Gurley, 1890)

See: *Troostocrinus nitidulus* S. A. Miller and Gurley, 1890.

Metablastus wachsmuthi (Gurley, 1884)

See: *Troostocrinus wachsmuthi* Gurley, 1884.

Metablastus wortheni (Hall, 1858)

See: *Pentremites wortheni* Hall, 1858.

Nucleocrinus elegans Conrad, 1842

Referred specimen: UC 19049.

Fay, 1961, p. 84, pl. 29, figs. 4–6, 9, text fig. 168.

Devonian, Hamilton Beds.

Moscow, New York; Gurley Collection.

Nucleocrinus greenei S. A. Miller and Gurley, 1894

Holotype: UC 6113.

S. A. Miller and Gurley, 1894, p. 62, pl. 6, figs. 24, 25.

Devonian, Upper Helderberg Group.

Louisville, Kentucky; Gurley Collection.

Nucleocrinus venustus S. A. Miller and Gurley, 1894

Holotype, not designated, to be selected from UC 6114 and UC 6115 and Univ. Cincinnati no. 1317.

Referred specimens: UC 6114, two specimens.

S. A. Miller and Gurley, 1894, p. 63, pl. 6, figs. 28–30.

=*Elaeacrinus venustus* (S. A. Miller and Gurley, 1894)

Fay, 1961, pp. 68–69, pl. 28, figs. 1–3, text fig. 125.

Devonian, Upper Helderberg Group.

Columbus, Ohio; Gurley Collection.

Referred specimen: UC 6115.

S. A. Miller and Gurley, 1894, p. 63, pl. 6, figs. 26–27.

=*Elaeacrinus venustus* (S. A. Miller and Gurley, 1894)

Fay, 1961, pp. 68–69.

Devonian, Upper Helderberg Group.

Louisville, Kentucky; Gurley Collection.

Orbitremites campanulatus (M'Coy, 1849)

Referred specimen: UC 1633.

Fay, 1961, pp. 88–89, pl. 43, figs. 4–6, text figs. 183–185.

Lower Carboniferous Limestone.

?Devonshire, England; James Collection.

Orbitremites winslowi (S. A. Miller and Gurley, 1894)

See: *Granatocrinus winslowi* S. A. Miller and Gurley, 1894.

Orophocrinus conicus Wachsmuth and Springer, 1890

Referred specimen: UC 13595.
Fay and Reimann, 1962, pl. 3, figs. 1, 3–5.
Macurda, 1965, pl. 121, figs. 46–48, 106, pl. 124, figs. 9, 13.

Referred specimen: UC 51748 [not UC 51869].
Macurda, 1965, pl. 121, figs. 25–27, pl. 124, figs. 1, 11.

Mississippian, Kinderhook.

LeGrand, Iowa; Gurley Collection.

Orophocrinus fusiformis (Wachsmuth and Springer, 1888)

Referred specimen: UC 13594, one specimen with thin section.
Fay and Reimann, 1962, pl. 3, fig. 2.

= *Pyramiblastus fusiformis* (Wachsmuth and Springer, 1888)
Macurda, 1964, p. 106.

Mississippian, Kinderhook.

LeGrand, Iowa; Gurley Collection.

Orophocrinus stelliformis (Owen and Shumard, 1850)

Referred specimen: UC 9955.
Macurda, 1965, pl. 124, fig. 15, text fig. 3.
Macurda, 1966, pl. 13, fig. 9.

Mississippian, Burlington Limestone.

Burlington, Iowa; Gurley Collection.

See also: *Pentremites stelliformis* Owen and Shumard, 1850.

Pentremites arctibrachiatus Ulrich, 1917

Referred specimen: UC 25348.
S. Weller, 1920, p. 148, pl. 4, fig. 13.

Mississippian, Renault Limestone.

S. Weller, 1920 locality W15-8, mouth of Good Hope shaft, Fairview Mine, Rosiclare, Illinois; collected by S. Weller, 1915.

Pentremites brevis Ulrich, 1917

Referred specimens: UC 25422, six specimens.
S. Weller, 1920, p. 369, pl. 4, figs. 43–46.

Mississippian; Glen Dean Limestone [catalogue]; Upper Okaw Limestone, Plum Creek Beds [published].

S. Weller location W194, at Menard, Randolph County, Illinois; collected by S. Weller, 1907.

Pentremites buttsi Ulrich, 1917

Referred specimens: UC 25352, two specimens.
S. Weller, 1920, p. 323, pl. 4, fig. 16.

Mississippian, Renault Limestone.

S. Weller locality W15-8, Fairview Mine, Hardin County, Rosiclare, Illinois; collected by S. Weller, 1915.

Referred specimen: UC 25353.
S. Weller, 1920, p. 323, pl. 4, fig. 18.

Mississippian, Renault Limestone.

S. Weller locality W568, 3½ miles east of Waterloo, Illinois [catalogue]; Monroe County, Illinois [published]; collected by S. Weller, 1911.

Referred specimen: UC 25354.
S. Weller, 1920, p. 323, pl. 4, fig. 17.

Mississippian, Renault Limestone.

S. Weller locality W532, Bixby, St. Clair County, Illinois; collected by S. Weller, 1911.

Referred specimens: UC 25355, two specimens.
S. Weller, 1920, p. 323, pl. 4, figs. 19, 20.

Mississippian, Renault Limestone.

Near Anna, Illinois; collected by S. Weller, 1907.

Pentremites cervinus Hall, 1858

Holotype: UC 55003, cast.
Hall, 1858, pp. 690–691, pl. 25, figs. 11a, b.

Mississippian, Kaskaskia Limestone.

Chester, Illinois or near Huntsville, Alabama; Hall Collection.

Pentremites cherokeeus Hall, 1858

Referred specimens: UC 25424, five specimens.
S. Weller, 1920, p. 371, pl. 10, figs. 11–13.

Mississippian, top of Menard Limestone.

S. Weller locality W637, Chester Quadrangle, Mississippi River Bluffs, Randolph and Johnson Counties, Illinois; collected by S. Weller, 1913.

Pentremites fohsi Ulrich, 1905

Referred specimen: UC 25423.
S. Weller, 1920, pp. 370–371, pl. 10, fig. 4.

Mississippian, Menard Limestone.

Three and one-half miles north of Golconda, Pope County, Illinois; collected by S. Weller, 1915.

Pentremites gemmiformis Hambach, 1886

Referred specimens: UC 25360, three specimens.
S. Weller, 1920, p. 326, pl. 10, figs. 9, 10.

Mississippian, Paint Creek Formation.

S. Weller locality W606, three miles east of Prairie du Rocher, Randolph County, Illinois; collected by S. Weller, 1912.

Pentremites godoni (Defrance, 1819)

Referred specimens: UC 25349, three specimens.
S. Weller, 1920, pp. 319–322, pl. 4, figs. 33–35.

Referred specimen: UC 25351.
S. Weller, 1920, pp. 319–322, pl. 4, fig. 47.

Mississippian, Paint Creek Formation.

S. Weller locality W567, 1¼ miles northwest of Floraville, St. Clair County, Illinois; collected by S. Weller, 1911.

Referred specimen: UC 25350.
S. Weller, 1920, pp. 319–322, pl. 4, fig. 36.

Mississippian, Renault Limestone.

S. Weller locality W15-8, mouth of Good Hope shaft, Fairview Mine, Rosiclaire, Illinois; collected by S. Weller, 1915.

Pentremites laminatus Easton, 1943

Holotype: original designation UC 48293.
Easton, 1943, pp. 136–137, pl. 21, figs. 9, 10.

Mississippian, Pitkin Formation.

Easton, 1943 locality 30, thick shale above first massive limestone in quarry west of road, 0.3 mile south of Leslie, Arkansas; Easton Collection.

Referred specimen: UC 48294.
Easton, 1943, pp. 136–137.

Mississippian, Pitkin Formation.

Thick shale above first massive limestone in quarry west of road, 0.3 miles south of Leslie, Arkansas; Easton Collection.

Pentremites laterniformis Owen and Shumard, 1850

Holotype: UC 6370.

Owen and Shumard, 1850, p. 66, pl. 7, fig. 15.

Owen and Shumard, 1852, pp. 592–593, table 5A, fig. 15.

=*Tricoelocrinus laterniformis* (Owen and Shumard, 1850) Bassler and Moodey, 1943, p. 258.

Mississippian, Kaskaskia.

On Mill Creek, Randolph County, Illinois, seven miles from Chester, Illinois; Gurley Collection.

Pentremites melo Owen and Shumard, 1850

Referred specimens: UC 6367, two specimens.

Owen and Shumard, 1850, p. 65, [pl. 7, figs. 14a–c].

Owen and Shumard, 1852, p. 592, [tbl. 5A, figs. 14a–c].

=*Cryptoblastus melo* (Owen and Shumard, 1850) Fay, 1961, p. 61.

Mississippian, Burlington Limestone.

Burlington, Iowa; Gurley Collection.

Remarks: For complete synonymy see Bassler and Moodey, 1943, p. 217.

Fay, 1961, p. 61, states that the original holotype was destroyed in a fire at Indiana University in 1883. He has chosen a neotype, S4959 at U.S. National Museum. UC 6367 are listed as "cotypes" but the specimens cannot be positively identified from Owen and Shumard's figures, pl. 7, figs. 14a–c.

Pentremites nodosus Hambach, 1886

Referred specimens: UC 25150, two specimens.

S. Weller, 1920, pp. 356–357, pl. 4, fig. 25.

Mississippian, Lower Okaw Limestone.

S. Weller locality 595, three-quarter miles north of Marigold, Randolph County, Illinois; collected by S. Weller, 1912.

Pentremites obesus Lyon, 1851

Referred specimen: UC 25399.

S. Weller, 1920, p. 355, pl. 10, fig. 3.

Mississippian, Lower Golconda Limestone.

Ohio River bank above Golconda, Pope County, Illinois; collected by S. Weller, 1918.

Pentremites okawensis S. Weller, 1920

Holotype: UC 25136.
S. Weller, 1920, pp. 357–358, pl. 10, fig. 5.

Mississippian, Lower Okaw Limestone.

S. Weller locality W595, three-quarter mile north of Marigold, Randolph County, Illinois; collected by S. Weller, 1912.

Referred specimen: UC 25402.
S. Weller, 1920, pp. 357–358, pl. 10, fig. 6.

Mississippian, Golconda Limestone.

S. Weller locality W17-2, Pope County, Illinois, near Flat Rockford [catalogue]; Hardin County, Illinois [published]; collected by S. Weller, 1917.

Referred specimen: UC 25403.
S. Weller, 1920, pp. 357–358, pl. 10, fig. 7.

Mississippian, Glen Dean Limestone.

Two miles northwest of Elizabethtown, Illinois [catalogue]; Hardin County, Illinois [published]; collected by S. Weller, 1917.

Pentremites pinguis Ulrich, 1918

Referred specimens: UC 25345, two specimens.
S. Weller, 1920, pp. 317–319, pl. 4, figs. 8, 9.

Mississippian, Renault Limestone.

S. Weller locality W538, two miles northeast of New Hanover, Illinois [catalogue]; Monroe County, Illinois [published]; collected by S. Weller, 1911.

Referred specimens: UC 25346, two specimens.
S. Weller, 1920, pp. 317–319, pl. 4, figs. 10–11.

Mississippian, Shetlerville Formation.

Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Referred specimen: UC 25347.
S. Weller, 1920, pp. 317–319, pl. 4, fig. 12.

Mississippian, Renault Limestone.

S. Weller locality W329, Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Pentremites platybasis S. Weller, 1920

Holotype: UC 25135.
S. Weller, 1920, pp. 355–356, pl. 4, fig. 37.

Referred specimens: UC 25138, two specimens.
S. Weller, 1920, pp. 355–356, pl. 4, figs. 38–40.

Mississippian, Lower Okaw Limestone.

S. Weller locality W595, three-quarter mile north of Marigold, Randolph County, Illinois; collected by S. Weller, 1912.

Referred specimen: UC 25401.
S. Weller, 1920, pp. 355–356, pl. 4, fig. 42.

Mississippian, Lower Golconda Limestone.

S. Weller locality W17-4, 2½ miles northwest of Elizabethtown, Illinois [catalogue]; Hardin County, Illinois [published]; collected by S. Weller, 1917.

Pentremites princetonensis Ulrich, 1918

Referred specimen: UC 13113.
S. Weller, 1920, pp. 314–316, pl. 4, fig. 1.

Mississippian, St. Louis Limestone.

Grand Ave. and Laclede, St. Louis, Missouri; Van Horne Collection.

Referred specimens: UC 25338, two specimens.
S. Weller, 1920, pp. 314–316, pl. 4, fig. 2.

Mississippian, St. Louis Limestone.

Bed no. 6, above Little Rock, Ste. Genevieve County, Missouri; collected by F. M. Van Tuyl.

Referred specimens: UC 25339, six specimens.
S. Weller, 1920, pp. 314–316, pl. 4, fig. 3.

Mississippian, Fredonia Limestone.

Rosiclaire, Illinois; collected by S. Weller, 1915.

Referred specimens: UC 25340, six specimens.
S. Weller, 1920, pp. 314–316, pl. 4, figs. 4–5.

Mississippian, Ste. Genevieve Limestone.

Fountain Creek, near Waterloo, Illinois; collected by S. Weller, 1911.

Referred specimen: UC 25341.
S. Weller, 1920, pp. 314–316, pl. 4, fig. 6.
Mississippian, Renault Limestone.
S. Weller locality W329, Fairview Bluff, below Rosiclare, Hardin County, Illinois; collected by S. Weller, 1907.

Referred specimen: UC 25342.
S. Weller, 1920, pp. 314–316, pl. 4, fig. 7.
Mississippian, Renault Limestone.
S. Weller locality W578, Monroe County, Illinois; collected by S. Weller, 1912.

Pentremites pulchellus Ulrich, 1918

Referred specimens: UC 25343, five specimens.
S. Weller, 1920, pp. 316–317, pl. 4, fig. 14.
Mississippian, Fredonia Limestone.
Cedar Bluff, near Princeton, Kentucky; collected by S. Weller, 1915.

Referred specimens: UC 25344, four specimens.
S. Weller, 1920, pp. 316–317, pl. 4, figs. 28–30.
Mississippian, Shetlerville Formation.
Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Pentremites pyramidatus Ulrich, 1905

Referred specimens: UC 25357, two specimens.
S. Weller, 1920, pp. 325–326, pl. 4, figs. 21, 24.
Mississippian, Paint Creek Formation.
S. Weller locality W648, six miles south of Vienna, Illinois [catalogue]; Cache River Bluff, Johnson County, Illinois [published]; collected by S. Weller, 1913.

Referred specimen: UC 25358.
S. Weller, 1920, pp. 325–326, pl. 4, fig. 22.
Mississippian, Paint Creek Formation.
S. Weller locality W558, two miles south of Columbia, Illinois; collected by S. Weller, 1911.

Referred specimen: UC 25359.
S. Weller, 1920, pp. 325–326, pl. 4, fig. 23.

Mississippian, Paint Creek Formation.

S. Weller locality W546, two miles south of Columbia, Illinois; collected by S. Weller, 1911.

Pentremites pyriformis Say, 1822

Referred specimen: UC 15895, cast.
Hall, 1858, p. 693, pl. 25, fig. 16.
Grabau and Shimer, 1910, pp. 482–483, text fig. 1793a.
Cline *in* Shimer and Shrock, 1944, p. 134, pl. 50, figs. 19, 26.

Mississippian, Kaskaskia Limestone.

Chester, Illinois; Hall Collection.

Pentremites sampsoni Hambach, 1886

Holotype: UC 6960.
Hambach, 1886, pp. 551–552, pl. D, figs. 2, 2a.

=*Schizoblastus? roemeri* Shumard, 1855
Keyes, 1894, p. 137.

=*Schizoblastus sampsoni* (Hambach, 1886)
S. Weller, 1898, p. 551.

=*Cribroblastus sampsoni* (Hambach, 1886)
Hambach, 1903, pp. 41–42.

=*Cryptoblastus roemeri* (Shumard, 1855)
Peck *in* Branson, 1938, pp. 60–62, pl. 26, fig. 34.

=*Tanaoblastus roemeri* (Shumard, 1855)
Fay, 1961, pp. 101–102.

Mississippian, Chouteau Limestone.

Sedalia, Pettis County, Missouri; Sampson Collection.

Pentremites spicatus Ulrich, 1918

Referred specimen: UC 25421.
S. Weller, 1920, p. 368, pl. 10, fig. 8.

Mississippian, Upper Okaw, Plum Creek Beds.

S. Weller locality W195, Menard, Randolph County, Illinois; collected by S. Weller, 1907.

Pentremites stelliformis Owen and Shumard, 1850

Holotype: UC 6366.
Owen and Shumard, 1850, p. 67, pl. 7, figs. 16a, 16b.
Owen and Shumard, 1852, p. 593, table 5A, figs. 16a, 16b.

=*Orophocrinus stelliformis* (Owen and Shumard, 1850)
Fay, 1961, pp. 35–36.

Mississippian, Burlington Limestone.

Burlington, Iowa; Gurley Collection.

Remarks: For complete synonymy see Bassler and Moodey, 1943, p. 234.

Fay, 1961, p. 36, states that the original holotype was presumably destroyed by fire at Indiana University in 1883. He has chosen a neotype, S4961 at U.S. National Museum. UC 6366 is listed as holotype in the Museum catalogues and agrees well with Owen and Shumard's figures, pl. 7, figs. 16a–b.

Pentremites symmetricus Hall, 1858

Referred specimens: UC 25356, two specimens.
S. Weller, 1920, pp. 324–325, pl. 4, figs. 26, 27.

Mississippian, Paint Creek Formation.

S. Weller locality W567, one and one-quarter miles northwest of Floraville, St. Clair County, Illinois; collected by S. Weller, 1911.

Pentremites wortheni Hall, 1858

Holotype: UC 15896, cast.
Hall, 1858, p. 606, pl. 15, fig. 1.

=*Troostocrinus wortheni* (Hall, 1858)
S. A. Miller, 1889, p. 287, text fig. 443.

=*Metablastus wortheni* (Hall, 1858)
Keyes, 1894, p. 137.

Mississippian, Keokuk Limestone.

Keokuk, Iowa; Hall Collection.

Remarks: Plaster cast of specimen does not exactly correspond to figures by Hall, 1858, or Miller, 1889.

Pentremites sp.

Referred specimen: UC 25440.
S. Weller, 1920, pl. 4, fig. 15.

Mississippian, Shetlerville Formation.

S. Weller locality W327, Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Pentremitidea pailletti (de Verneuil, 1844)

Referred specimens: UC 13876, four specimens.
Fay, 1961, p. 39, pl. 2, figs. 1–3.
Fay and Wanner *in* Moore, 1967, p. 413, text figs. 256,2a–256,2b.
Devonian.
Calizas de Ferroñes, Asturias, Spain.

Phaenoblastus caryophyllatus (de Koninck and Lehon, 1854)

Referred specimens: UC 19082, three specimens.
Fay, 1961, pp. 40–41, pl. 14, figs. 3, 6, 10, text figs. 46, 47.
Fay and Wanner *in* Moore, 1967, pp. 402–404, text figs. 241,2a and 241,2b.
Carboniferous, Tournaisian.
Tournai, Belgium; Gurley Collection.

Phaenoschisma laeviusculum (Rowley, 1900)

See: *Conoschisma laeviusculum* (Rowley, 1900).

Placoblastus angularis (Lyon, 1857)

Referred specimens: UC 13890, 39 specimens.
Fay, 1961, pp. 94–95, pl. 33, figs. 1–6.
Devonian, Hamilton Group.
Charlestown, Indiana; Gurley Collection.

Referred specimen: UC 19052.
Fay, 1961, pp. 94–95, pl. 33, figs. 7–9.
Devonian.
Falls of the Ohio, near Jeffersonville, Indiana; Gurley Collection.

Placoblastus lucina (Hall, 1862)

Referred specimen: UC 13276.
Fay, 1961, p. 97, pl. 32, fig. 7, text fig. 200.
Devonian, Hamilton Beds.
New York State?; Hall Collection.

Referred specimen: UC 51871, [formerly UC 19049].
Fay, 1961, p. 97, pl. 32, figs. 4–6, 10, text figs. 200–201.
Devonian, Hamilton Group.
Moscow, New York; Gurley Collection.

Poroblastus granulosus (Meek and Worthen, 1865)

Referred specimens: UC 13893, five specimens.
Fay, 1961, p. 98, text fig. 204.

Mississippian, Upper Burlington Limestone.

S. Weller locality 20, near Springfield, Missouri; Weller Collection.

Referred specimens: UC 13894, three specimens.
Fay, 1961, p. 98, pl. 41, figs. 10–12, text fig. 203.

Mississippian, Upper Burlington Limestone.

S. Weller locality 21, Springfield, Missouri; Weller Collection.

Pyramiblastus fusiformis (Wachsmuth and Springer, 1888)

See: *Orophocrinus fusiformis* (Wachsmuth and Springer, 1888).

Schizoblastus? roemeri Shumard, 1855

See: *Pentremites sampsoni* Hambach, 1886.

Schizoblastus sampsoni (Hambach, 1886)

See: *Pentremites sampsoni* Hambach, 1886.

Schizoblastus winslowi (S. A. Miller and Gurley, 1894)

See: *Granatocrinus winslowi* S. A. Miller and Gurley, 1894.

Tanaoblastus roemeri (Shumard, 1855)

Referred specimens: UC 19106, ten specimens.
Fay, 1961, pp. 101–102, pl. 36, figs. 10–12, text figs. 209–210.

Mississippian, Chouteau Limestone.

Sedalia, Missouri; Gurley Collection.

See also: *Pentremites sampsoni* Hambach, 1886.

Tricoelocrinus laterniformis (Owen and Shumard, 1850)

See: *Pentremites laterniformis* Owen and Shumard, 1850.

Trionoblastus pyramidatus (Shumard, 1858)

See: *Codaster pyramidatus* Shumard, 1858.

Troosticrinus Shumard, 1866

See: *Troostocrinus* Meek and Worthen, 1868.

Troostocrinus nitidulus S. A. Miller and Gurley, 1890

Holotype, not designated, to be selected from UC 6284.

Referred specimens: UC 6284, two specimens.

S. A. Miller and Gurley, 1890, p. 58, pl. 9, figs. 14, 15, pl. 10, fig. 14.

S. A. Miller and Gurley, 1891, p. 373, pl. 9, figs. 14,15, pl. 10, fig. 14.

=*Metablastus nitidulus* (S. A. Miller and Gurley, 1890)
Fay, 1961, pp. 79–80, pl. 51, figs. 3, 4, 7.

Mississippian, Salem Limestone.

Lanesville, Indiana; Gurley Collection.

Remarks: *Troostocrinus* Meek and Worthen, 1868 =*Troosticrinus* Shumard, 1866.
Bassler and Moodey, 1943, p. 259.

Troostocrinus cf. **reinwardti** (Troost, 1835)

See: *Troostocrinus* sp.

Troostocrinus reinwardti-minimus Foerste, 1920

Holotype: UC 14791.

Foerste, 1920, pp. 64–65, pl. 1, fig. 14.

Silurian, Niagaran, Bainbridge.

Six miles west of St. Marys, in Ste. Genevieve County, Missouri; H. E. Wilson, donor.

Remarks: *Troostocrinus* Meek and Worthen, 1868 =*Troosticrinus* Shumard, 1866.
Bassler and Moodey, 1943, p. 259.

Troostocrinus sanctipaulensis Foerste, 1920

Holotype, not designated, to be selected from UC 22909.

Referred specimens: UC 22909, four specimens.
Foerste, 1920, p. 64, pl. 1, fig. 16.

Silurian, Niagaran, Laurel Limestone.

St. Paul, Indiana; Washburn Collection.

Remarks: *Troostocrinus* Meek and Worthen, 1868 =*Troosticrinus* Shumard, 1866.
Bassler and Moodey, 1943, p. 259.

Troostocrinus wachsmuthi Gurley, 1884

Holotype: UC 6323.

Gurley, 1884, pp. 1–2.

=*Metablastus wachsmuthi* (Gurley, 1884)

S. Weller, 1898, p. 350.

Fay, 1961, pp. 80 and 82, pl. 51, figs. 1–2 and 5.

Fay and Wanner *in* Moore, 1967, p. 416, text figs. 258,2b–258,2c.

Mississippian, Warsaw Division, St. Louis Limestone [Gurley, 1884]; Salem Limestone [Fay, 1961].

Ellettsville, Indiana; Gurley Collection.

Remarks: *Troostocrinus* Meek and Worthen, 1868 =*Troosticrinus* Shumard, 1866.

Bassler and Moodey, 1943, p. 259.

Troostocrinus wortheni (Hall, 1858)

See: *Pentremites wortheni* Hall, 1858.

Troostocrinus sp.

Referred specimen: UC 22907.

Foerste, 1920, pp. 66–67, pl. 1, fig. 15.

=*Troostocrinus* cf. *reinwardti* (Troost, 1835) museum catalogue

Silurian, Niagaran.

Bridgeport Quarry, Chicago, Illinois.

Remarks: *Troostocrinus* Meek and Worthen, 1868 =*Troosticrinus* Shumard, 1866.

Bassler and Moodey, 1943, p. 259.

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